

LISTING OF THE CLAIMS

1. (Previously Presented) A blood purification device comprising:
 - a blood circuit having an arterial blood circuit and a venous blood circuit;
 - a blood pump disposed in said arterial blood circuit;
 - a blood purifier connected to the blood circuit between said arterial blood circuit and said venous blood circuit, and configured to purify blood flowing in said blood circuit;
 - a first measuring unit disposed in said arterial blood circuit and configured to measure a blood concentration of said arterial blood circuit;
 - a second measuring unit disposed in said venous blood circuit and configured to measure a blood concentration of said venous blood circuit;
 - a calculating unit configured to calculate a measurement value and a theoretical value, the measurement value referring to a ratio of said blood concentrations measured by said first measuring unit and said second measuring unit, and the theoretical value referring to a blood concentration ratio obtained by at least one formula based on parameters including a preset blood flow rate of said blood pump and a preset blood purifying rate of said blood purifier; and
 - an evaluation unit configured to evaluate whether said measurement value and said theoretical value are approximately equal, wherein
- said calculating unit performs a calculation in response to a result of evaluation by said evaluation unit to determine a performance of at least one of said blood pump and said blood purifier using said at least one formula.

2. (Previously Presented) The blood purification device of claim 1, wherein:
said blood purifier includes a water removing unit connected to said blood purifier and
configured to remove water from blood flowing in said blood purifier; and
said preset blood purifying rate is a preset water removal rate of said water removing unit.

3. (Previously Presented) The blood purification device of claim 2, further comprising:
a substitution fluid supplying unit configured to supply a substitution fluid into said blood
circuit, wherein
said calculating unit configured to calculate a theoretical value referring to a ratio of the
blood concentrations obtained by the at least one formula based on parameters including a preset
substitution fluid supplying rate of said substitution fluid supplying unit and a filtration rate of said
blood purifier in addition to said preset blood flow rate and said preset water removal rate.

4. (Previously Presented) The blood purification device of the claim 1, further
comprising:
a reporting unit configured to report when a ratio difference between said measurement
value and said theoretical value, which is evaluated by said evaluation unit, is larger than a
predetermined acceptable ratio difference.

5. (Previously Presented) The blood purification device of the claim 2, further
comprising:

a reporting unit configured to report when a ratio difference between said measurement value and said theoretical value, which is evaluated by said evaluation unit, is larger than a predetermined acceptable ratio difference.

6. (Previously Presented) The blood purification device of the claim 3, further comprising:

a reporting unit configured to report when a ratio difference between said measurement value and said theoretical value, which is evaluated by said evaluation unit, is larger than a predetermined acceptable ratio difference.

7. (Canceled)